

*Quantitative Velocity Field Measurements in Reduced-Gravity
Combustion Science and Fluid Physics Experiments*

Summary:

- Reduction in buoyant forces in reduced-gravity phenomena motivates the development of quantitative velocity field measurement capabilities.
- Unique constraints inherent to space-flight applications poses specialized approaches to development.
- Remote operation mandates clear and informative user interfaces.
- Constraints on data storage and transmission promote efficient, flexible on-line analysis methods.

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